

InterTrust Tech. Corp. v. Microsoft Corp.
Case No. C 01-1640 SBA (MEJ)

APPENDIX OF PRIOR ART*

| Anticipates | Renders Obvious | Description |
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| Y | Yes | Choudhury, Abhijit K.; Maxemchuk, Nicholas F.; Paul, Sanjoy; Schulzrinne, Henning G.; "Copyright Protection for Electronic Publishing Over Computer Networks", IEEE Network, May/Jun., 1995 |
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| Y | Yes | U.S. 4,405,829; Sep. 20, 1983 |
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| Y | Yes | U.S. 5,678,170; Oct. 14, 1997 |
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| | Yes | U.S. 4,817,140; Mar. 28, 1989 |
| Y | Yes | U.S. 4,866,769; Sep. 12, 1989 |
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| Y | Yes | U.S. 5,113,518; May 12, 1992 |
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| | Yes | U.S. 5,218,605; Jun. 8, 1993 |
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| Y | Yes | U.S. 5,291,598; Mar. 1, 1994 |
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| Anticipates | Reveals Obvious | Description |
|-------------|-----------------|---|
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| | Yes | U.S. 5,940,504; Aug. 17, 1999 |
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APPENDIX OF PRIOR ART*

| Anticipates | Rends Obvious | Description |
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| Anticipates | Renders Obvious | Descriptor |
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| Anticipates | Relevant Obvious | Description |
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| Anticipates | Relevant Obvious | Description |
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APPENDIX OF PRIOR ART*

| Anticipates | Render Obvious | Description |
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| Anticipates | Renders Obvious | Description |
|-------------|-----------------|---|
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| Anticipates | Relevant Options | Description |
|-------------|---------------------|---|
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| Anticipates | Relevant Prior Art | Description |
|-------------|-----------------------|---|
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| | Yes | "TELENET TELEtraining platform (on NETworks) - Project Profile" information society technologies, time schedule Mar. 6, 2000 - Mar. 30, 2000; "Deliverable D3: Specification of the Infrastructure And explanation of trust and confidence building solutions" Ver. 0.1, Telenet, Jul. 18, 2000; Email from Edmond Kouka to Jean-Francois Boisson re Affaire BC-CreaNet; Feb. 10, 2001; Email from Bogdan Lutkiewicz to Jean-Francois Boisson re TELENET TELEtraining platform - Bogdan Lutkiewicz, Poland, Gdansk; Mar. 4, 2001 |
| Y | Yes | Boisson, Jean-Francois; "Management of Intellectual Property Rights in the Electronic Commerce: Textile Design Sales And Other Similar Initiatives," EURITIS |
| | Yes | U.S. Patent No. 5,251,294; Oct. 5, 1993 |
| | Yes | S.H. Low, N.F. Maxemchuk, J.T. Bassil, & L. O'Gorman, Document Marking and Identification Using Both Line and Word Shifting, Infocom 95, 1994 |
| | Yes | Caroni, Maxemchuck & O'Gorman, Electronic Marking and Identification Techniques to Discourage Document Copying, Proc. Infocom 94, 1994 |
| | Yes | Wagner, Fingerprinting, IEEE Symp. On Info. and Privacy, Apr., 93 |
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| | Yes | Chor, Fiat & Naor, Tracing Traitors, Crypto 94, p. 257, 1994 |
| | Yes | David Chaum, "Security Without Identification: Transaction Systems to Make Big Brother Obsolete", Comm. Of the ACM, vol. 28, no. 10, Oct. 1985 |
| | Yes | "Wallet Databases with Observers", David Chaum, Advances in Cryptology - Proceedings of Crypto '92 (pp. 89-105), 1992 |
| Y | Yes | Sirbu, Marvin; Tygar, J.D.; "NetBill: An Internet Commerce System Optimized for Network Delivered Services", Carnegie Mellon University |
| | Yes | Ulrich Kohl, Jeffrey Lotspiech, Marc Kaplan, "Safeguarding Digital Library Contents and Users", IBM Research Division, D-Lib Magazine, Sept. 97 |
| | Yes | Daniel Schutzer, A Need for a Common Infrastructure: Digital Libraries and Electronic Commerce, Apr. 1996 |
| | Yes | Michael Lesk, Digital Libraries Meet Electronic Commerce: On-Screen Intellectual Property, Dec. 15, 98 |

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InterTrust Tech. Corp. v. Microsoft Corp.
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APPENDIX OF PRIOR ART*

| Anticipates | Readers Obvious | Description |
|-------------|-----------------|---|
| | Yes | Lorcan Dempsey & Stuart L. Weibel; The Warwick Metadata Workshop: A Framework for the Deployment of Resource Description, Jul./ Aug. 96 |
| | Yes | "AT&T Smart Cards Systems & Solutions", AT&T, 1993 |
| Y | Yes | Gemplus; "MCOS: Multi Application Chip Operating System - Introduction", Gemplus Card International, 1990 |
| | Yes | Guillou, Louis C.; "Smart Cards and Conditional Access", Springer-Verlag, 1988 |
| | Yes | David L. Chaum, "Untraceable Electronic Mail, Return Addresses, and Digital Pseudonyms", 1981 |
| | Yes | Kent, S.; "U.S. Department of Defense Security Options for the Internet Protocol", Network Working Group RFC 1108, Nov. 1991 |
| | Yes | Deering, S.E.; "Host Extensions for IP Multicasting", Network Working Group, RFC 1112, Aug. 1989 |
| | Yes | Pethia, R.; Crocker, S.; Fraser, B.; "Guidelines for the Secure Operation of the Internet", Network Working Group RFC 1281, Nov., 1991 |
| | Yes | Galvin, J.; McCloghrie, K.; "Security Protocols for version 2 of the Simple Network Management Protocol (SNMPv2)", Network Working Group RFC 1446, Apr., 1993 |
| | Yes | Eastlake III, D.; "Physical Link Security Type of Service", Network Working Group RFC 1455, May, 1993 |
| | Yes | Kastenholz, F.; "The Definitions of Managed Objects for the Security Protocols of the Point-to-Point Protocol", Network Working Group RFC 1472, Jun. 1993 |
| Y | Yes | Kohl, J., Neuman, C.; "The Kerberos Network Authentication Service (V5)", Network Working Group RFC 1510, Sep., 1993 |
| | Yes | Eastlake III, D.; Crocker, S.; Schiller, J.; "Randomness Recommendations for Security", Network Working Group RFC 1750, Dec. 1994 |
| | Yes | Haller, N.; "The S/KEY One-Time Password System", Network Working Group RFC 1760, Feb., 1995 |
| | Yes | Atkinson, R.; "Security Architecture for the Internet Protocol", Network Working Group RFC 1825, Aug., 1995 |
| | Yes | Crocker, S.; Freed, N.; Galvin, J.; Murphy, S.; "MIME Object Security Services", Network Working Group RFC 1848, Oct., 1995 |
| | Yes | U.S. Patent No. 5,251,294; Oct. 5, 1993 |
| | Yes | S.H. Low, N.F. Maxemchuk, J.T. Bassil, & L. O'Gorman, "Document Marking and Identification Using Both Line and Word Shifting," AT&T Bell Laboratories, Infocom 95, Jul. 29, 1994 |
| | Yes | Brassil, J.; Low, S.; Maxemchuk, N.; O'Gorman L.; "Electronic Marking and Identification Techniques to Discourage Document Copying," AT&T Bell Laboratories, Proc. Infocom 94, 1994 |
| | Yes | Wagner, Neal; "Fingerprinting," Drexel University, IEEE Symp. On Info. and Privacy, Apr., 1993 |
| | Yes | Berghal, Hal; Ogorman, Lawrence; "Protecting Ownership Rights Through Digital Watermarking," IEEE Computing v. 29, no.7, pp. 101-103, Jul., 1996 |
| | Yes | Chor, Benny; Fiat, Amos; Naor, Moni; "Tracing Traitors," Crypto 94, p. 257, 1994 |

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InterTrust Tech. Corp. v. Microsoft Corp.
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APPENDIX OF PRIOR ART*

| Anticipates | Readers Obvious | Description |
|-------------|-----------------|--|
| | Yes | Chaum, David; "Security Without Identification: Transaction Systems to Make Big Brother Obsolete", Communications of the ACM, vol. 28, no. 10, Oct., 1985 |
| | Yes | Chaum, David; Pederson, Torben Pryds; "Wallet Databases with Observers", CWI, Aarhus University, David Chaum, <u>Advances in Cryptology</u> -- Proceedings of Crypto '92, pp. 89-105, 1992 |
| | Yes | Kohl, Ulrich; Lotspiech, Jeffrey; Kaplan, Marc; "Safeguarding Digital Library Contents and Users", IBM Research Division, D-Lib Magazine, Sept., 1997 |
| | Yes | Schutzer, Daniel; "A Need for a Common Infrastructure: Digital Libraries and Electronic Commerce," Citibank, D-Lib Magazine, Apr., 1996 |
| | Yes | Paepcke, Andreas; "Summary of Stanford's Digital Library Testbed and Status", Stanford University, D-Lib Magazine, Jul.-Aug., 1996 |
| | Yes | Dempsey, Lorcan; Weibel, Stuart L.; "The Warwick Metadata Workshop: A Framework for the Deployment of Resource Description", University of Bath, OCLC Office of Research, D-Lib Magazine, Jul.-Aug., 1996 |
| | Yes | "AT&T Smart Cards Systems & Solutions", AT&T, 1993 |
| | Yes | Brad J. Cox, Dr., "What if there is a silver bullet?", Dobbs Journal, Oct. 1992 |
| | Yes | Guillou, Louis C.; "Smart Cards and Conditional Access", Springer-Verlag, 1988 |
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| | Yes | Kent, S.; "U.S. Department of Defense Security Options for the Internet Protocol", Network Working Group RFC 1108, Nov. 1991 |
| | Yes | Deering, S.; "Host Extensions for IP Multicasting", Network Working Group RFC 1112, Aug. 1989 |
| | Yes | White, Steve R.; Comerford, Liam; "ABYSS: A Trusted Architecture for Software Protection", IEEE, Apr. 27, 1987 |
| | Yes | Ross, Philip E.; "Cops versus robbers in cyberspace"; Forbes, Sep. 9, 1996 |
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| | Yes | Bender, W.; Gruhl, D.; Morimoto, N.; Lu, A.; "Techniques for data hiding", IBM Systems Journal, Vol. 35, Nos. 3&4, 1996 |
| | Yes | Maxemchuk, N.F.; "Electronic Document Distribution", AT&T Bell Laboratories |
| | Yes | Doster, Bill; Rees, Jim; "Third-Party Authentication in the Institutional File System", Center for Information Technology Integration |
| | Yes | Levy, Steven; "E-Money (That's What I Want)", Wired Magazine, Issue 2.12, Dec. 94 |
| | Yes | Arms, William Y., "Key Concepts in the Architecture of the Digital Library", D-Lib Magazine, Jul. 1995 |
| | Yes | Weingart, S.H., "Physical Security for the uABYSS System", IEEE, 1987 |
| | Yes | B. Strohm, L. Comerford, S. R. White, "ABYSS: Tokens", IBM Research Report Number RC 12402, Dec. 18, 1986 |

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APPENDIX OF PRIOR ART*

| Anticipates | Relevant Obvious | Description |
|-------------|------------------|---|
| | Yes | Gozani, Shai; Gray, Mary; Keshav, Srinivasan; Madisetti, Mijay; Munson, Ethan; Rosenblum, Mendel; Schoettler, Steve; Sullivan, Mark; Terry, Douglas; "GAFFES: The Design of a Globally Distributed File System", Report No. UCB/CSD 87/361; Computer Science Division (EECS), U.C. Berkley, Jun. 1997 |
| | Yes | Chaum, David; Fiat, Amos; Naor, Moni; "Untraceable Electronic Cash", Lecture Notes in Computer Science, 403, Advances in Cryptology - CRYPTO '88 Proceedings, 1988 |
| | Yes | Chaum, David; "Privacy and Social Protection in Electronic Payment Systems", Chapter 12, <u>The Future of Money in the Information Age</u> |
| | Yes | Bos, Jurjen.; Chaum, David; "SmartCash: a Practical Electronic Payment System", Center for Mathematics and Computer Science, Report CS-R9035, Aug. |
| | Yes | Gircys, Gintaras R.; <u>Understanding and Using COFF</u> , O'Reilly & Associates, Inc.; Nov. 1988 |
| | Yes | <u>Unix System V, Release 3.2, Programmer's Guide Vol. II</u> , AT&T, Prentice Hall, 1989 |
| | Yes | Richardson, Dennis W.; <u>Electric Money: Evolution of an Electronic Funds-Transfer System</u> , The MIT Press, 1970 |
| | Yes | Custer, Helen; <u>Inside Windows NT</u> , Microsoft Press, Redmond, WA, 1993 |
| | Yes | Pietrek, Matt; <u>Windows Internals: The Implementation of the Windows Operating Environment</u> , Addison-Wesley, 1993 |
| | Yes | Gilde, R., "DAT-Heads: Frequently Asked Questions", 1991, Release 3.1-Sep. 2, 1992 |
| | Yes | Tardo, Joseph; Valente, Luis; "Mobile Agent Security and Telescript", General Magic, Inc. |
| | Yes | "Telescript Security", BYTE.com, Oct. 1994 |
| | Yes | "Forum on Risks to the Public in Computers and Related Systems: ACM Committee on Computers and Public Policy, Peter G. Neumann, moderator", Risks-Forum Digest, Vol. 15, Issue 40, Jan. 24, 1994 |
| | Yes | Sahuguet, Arnaud; "Piracy: the Dark Side of Electronic Commerce: CIS-700/2", Univ. of Pennsylvania, May 5, 1998 |
| Y | Yes | Rouaix, Francois; "A Web navigator with applets in Caml", INRIA |
| | Yes | Fuchsberger, Andreas; Gollmann, Dieter; Lothian, Paul; Paterson, Kenneth G.; Sidiropoulos, Abraham; "Public-key Cryptography on Smart Cards", Information Security Group |
| | Yes | "An Introduction to Safety and Security in Telescript", Telescript Powered |
| | Yes | Clarke, Roger; Bunting, Angela; "Cryptography issues in plain text", Privacy Law and Policy Reporter, 1996 |
| Y | Yes | Pratt & Whitney Inuse |
| Y | Yes | Use of ATM |
| Y | Yes | Use of Set Top Box |
| Y | Yes | Protective Envelope System |
| | | |
| | | |
| | | PRIOR ART |
| | Yes | 3,573,747; Adams et al. |

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| Anticipates | Rendered Obvious | Descriptor |
|-------------|------------------|-------------------------------|
| | Yes | 3,609,697; Blevins |
| | Yes | 3,790,700; Callais et al. |
| | Yes | 3,796,830; Smith |
| | Yes | 3,798,359; Feistel |
| | Yes | 3,798,360; Feistel |
| | Yes | 3,798,605; Feistel |
| | Yes | 3,806,882; Clarke |
| | Yes | 3,829,833; Freeny, Jr. |
| | Yes | 3,906,448; Henriques |
| | Yes | 3,911,397; Freeny, Jr. |
| | Yes | 3,924,065; Freeny, Jr. |
| | Yes | 3,931,504; Jacoby |
| | Yes | 3,946,200; Brobeck et al. |
| | Yes | 3,946,220; Brobeck et al. |
| | Yes | 3,956,615; Anderson et al. |
| | Yes | 3,958,081; Ehrsam et al. |
| | Yes | 3,970,992; Boothroyd et al. |
| | Yes | 4,048,619; Forman, Jr. et al. |
| | Yes | 4,071,911; Mazur |
| | Yes | 4,112,421; Freeny, Jr. |
| | Yes | 4,120,030; Johnstone |
| | Yes | 4,162,483; Entenman |
| | Yes | 4,163,280; Mori et al. |
| | Yes | 4,168,396; Best |
| | Yes | 4,196,310; Forman et al. |
| | Yes | 4,200,913; Kuhar et al. |
| | Yes | 4,209,787; Freeny, Jr. |
| | Yes | 4,217,588; Freeny, Jr. |
| | Yes | 4,220,991; Hamano et al. |
| | Yes | 4,232,193; Gerard |
| | Yes | 4,232,317; Freeny, Jr. |
| | Yes | 4,236,217; Kennedy |
| | Yes | 4,253,157; Kirschner et al. |
| | Yes | 4,262,329; Bright et al. |
| | Yes | 4,265,371; Desai et al. |
| | Yes | 4,270,182; Asija |
| | Yes | 4,278,837; Best |
| | Yes | 4,305,131; Best |
| | Yes | 4,306,289; Lumley |
| | Yes | 4,309,569; Merkle |
| | Yes | 4,319,079; Best |
| | Yes | 4,323,921; Guillou |
| | Yes | 4,328,544; Baldwin et al. |
| | Yes | 4,337,483; Guillou |
| | Yes | 4,361,877; Dyer et al. |
| | Yes | 4,375,579; Davida et al. |
| | Yes | 4,433,207; Best |
| | Yes | 4,434,464; Suzuki et al. |

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| Anticipates | Renders Obvious | Description |
|-------------|-----------------|-------------------------------|
| | Yes | 4,442,486; Mayer |
| | Yes | 4,446,519; Thomas |
| | Yes | 4,454,594; Heffron et al. |
| | Yes | 4,458,315; Uchenick |
| | Yes | 4,462,076; Smith, III |
| | Yes | 4,462,078; Ross |
| | Yes | 4,465,901; Best |
| | Yes | 4,471,163; Donald et al. |
| | Yes | 4,484,217; Block et al. |
| | Yes | 4,494,156; Kadison et al. |
| | Yes | 4,513,174; Herman |
| | Yes | 4,528,588; Lofberg |
| | Yes | 4,528,643; Freeny, Jr. |
| | Yes | 4,553,252; Egendorf |
| | Yes | 4,558,176; Arnold et al. |
| | Yes | 4,558,413; Schmidt et al. |
| | Yes | 4,562,306; Chou et al. |
| | Yes | 4,562,495; Bond et al. |
| | Yes | 4,577,289; Comerford et al. |
| | Yes | 4,584,641; Guglielmino |
| | Yes | 4,588,991; Atalla |
| | Yes | 4,589,064; Chiba et al. |
| | Yes | 4,593,183; Fukatsu |
| | Yes | 4,593,353; Pickholtz |
| | Yes | 4,593,376; Volk |
| | Yes | 4,595,950; Lofberg |
| | Yes | 4,597,058; Izumi et al. |
| | Yes | 4,622,222; Johnson |
| | Yes | 4,634,807; Chorley et al. |
| | Yes | 4,644,493; Chandra et al. |
| | Yes | 4,646,234; Tolman et al. |
| | Yes | 4,652,990; Pailen et al. |
| | Yes | 4,658,093; Hellman |
| | Yes | 4,670,857; Rackman |
| | Yes | 4,672,572; Alsberg |
| | Yes | 4,677,434; Fascenda |
| | Yes | 4,677,552; Sibley, Jr. |
| | Yes | 4,680,731; Izumi et al. |
| | Yes | 4,683,553; Mollier |
| | Yes | 4,685,056; Barnsdale et al. |
| | Yes | 4,688,169; Joshi |
| | Yes | 4,691,350; Kleijne et al. |
| | Yes | 4,696,034; Wiedemer |
| | Yes | 4,700,296; Palmer, Jr. et al. |
| | Yes | 4,701,846; Ikeda et al. |
| | Yes | 4,712,238; Gilhousen et al. |
| | Yes | 4,713,753; Boebert et al. |
| | Yes | 4,727,550; Chang et al. |

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| Anticipates | Render Obvious | Description |
|-------------|-------------------|-------------------------------|
| | Yes | 4,740,890; William |
| | Yes | 4,747,139; Taaffe |
| | Yes | 4,757,533; Allen et al. |
| | Yes | 4,757,534; Matyas et al. |
| | Yes | 4,768,087; Taub et al. |
| | Yes | 4,791,565; Dunham et al. |
| | Yes | 4,796,181; Wiedemer |
| | Yes | 4,798,209; Klingenberg et al. |
| | Yes | 4,799,156; Shavit et al. |
| | Yes | 4,807,288; Ugon et al. |
| | Yes | 4,817,140; Chandra et al. |
| | Yes | 4,823,264; Deming |
| | Yes | 4,827,508; Shear |
| | Yes | 4,858,121; Barber et al. |
| | Yes | 4,864,494; Kobus |
| | Yes | 4,866,769; Karp |
| | Yes | 4,868,877; Fischer |
| | Yes | 4,903,296; Chandra et al. |
| | Yes | 4,924,378; Hershey et al. |
| | Yes | 4,930,073; Cina, Jr. |
| | Yes | 4,949,187; Cohen |
| | Yes | 4,975,647; Downer et al. |
| | Yes | 4,977,594; Shear |
| | Yes | 4,999,806; Chernow et al. |
| | Yes | 5,001,752; Fischer |
| | Yes | 5,005,122; Griffin et al. |
| | Yes | 5,005,200; Fischer |
| | Yes | 5,010,571; Katznelson |
| | Yes | 5,023,907; Johnson et al. |
| | Yes | 5,047,928; Wiedemer |
| | Yes | 5,048,085; Abraham et al. |
| | Yes | 5,050,213; Shear |
| | Yes | 5,091,966; Bloomberg et al. |
| | Yes | 5,103,392; Mori |
| | Yes | 5,103,476; Waite et al. |
| | Yes | 5,111,390; Ketcham |
| | Yes | 5,119,493; Janis et al. |
| | Yes | 5,126,936; Champion et al. |
| | Yes | 5,128,525; Stearns et al. |
| | Yes | 5,136,643; Fischer |
| | Yes | 5,136,646; Haber et al. |
| | Yes | 5,136,647; Haber et al. |
| | Yes | 5,136,716; Harvey et al. |
| | Yes | 5,146,575; Nolan, Jr. |
| | Yes | 5,148,481; Abraham et al. |
| | Yes | 5,155,680; Wiedemer |
| Y | Yes | 5,163,091; Graziano et al. |
| | Yes | 5,168,147; Bloomberg |

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| Anticipates | Render's Obvious | Description |
|-------------|---------------------|---------------------------------|
| | Yes | 5,185,717; Mori |
| | Yes | 5,187,787; Skeen et al. |
| | Yes | 5,201,046; Goldberg et al. |
| | Yes | 5,201,047; Maki et al. |
| | Yes | 5,208,748; Flores et al. |
| | Yes | 5,214,702; Fischer |
| | Yes | 5,216,603; Flores et al. |
| | Yes | 5,221,833; Hecht |
| | Yes | 5,222,134; Waite et al. |
| | Yes | 5,224,160; Paulini et al. |
| | Yes | 5,224,163; Gasser et al. |
| | Yes | 5,227,797; Murphy |
| | Yes | 5,235,642; Wobber et al. |
| | Yes | 5,241,671; Reed et al. |
| | Yes | 5,245,165; Zhang |
| | Yes | 5,247,575; Sprague et al. |
| | Yes | 5,257,369; Skeen et al. |
| | Yes | 5,260,999; Wyman |
| | Yes | 5,263,158; Janis |
| | Yes | 5,265,164; Matyas et al. |
| Y | Yes | 5,276,735; Boebert et al. |
| | Yes | 5,280,479; Mary |
| | Yes | 5,285,494; Sprecher et al. |
| | Yes | 5,301,231; Abraham et al. |
| | Yes | 5,311,591; Fischer |
| | Yes | 5,319,705; Halter et al. |
| | Yes | 5,319,785; Halter et al. |
| | Yes | 5,335,169; Chong |
| | Yes | 5,337,360; Fischer |
| | Yes | 5,341,429; Stringer et al. |
| | Yes | 5,343,527; Moore |
| | Yes | 5,347,579; Blandford |
| | Yes | 5,351,293; Michener et al. |
| Y | Yes | 5,355,474; Thuraingham et al. |
| | Yes | 5,365,587; Campbell et al. |
| | Yes | 5,373,440; Cohen et al. |
| | Yes | 5,373,561; Haber et al. |
| | Yes | 5,390,247; Fischer |
| | Yes | 5,390,330; Talati |
| | Yes | 5,392,220; van den Hamer et al. |
| | Yes | 5,392,390; Crozier |
| | Yes | 5,394,469; Nagel et al. |
| | Yes | 5,410,598; Shear |
| | Yes | 5,412,717; Fischer |
| | Yes | 5,418,713; Allen |
| | Yes | 5,420,927; Micali |
| | Yes | 5,421,006; Jablon |
| | Yes | 5,422,953; Fischer |

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| Anticipates | Render's Obvious | Description |
|-------------|------------------|-------------------------------|
| | Yes | 5,428,606; Moskowitz |
| | Yes | 5,438,508; Wyman |
| | Yes | 5,442,645; Ugon |
| | Yes | 5,444,779; Daniele |
| | Yes | 5,449,895; Hecht et al. |
| | Yes | 5,449,896; Hecht et al. |
| | Yes | 5,450,493; Maher |
| | Yes | 5,453,601; Rosen |
| | Yes | 5,453,605; Hecht et al. |
| | Yes | 5,455,407; Rosen |
| | Yes | 5,455,861; Faucher et al. |
| | Yes | 5,455,953; Russell |
| | Yes | 5,457,746; Dolphin |
| | Yes | 5,457,747; Drexler et al. |
| | Yes | 5,458,494; Krohn et al. |
| | Yes | 5,463,565; Cookson et al. |
| | Yes | 5,473,687; Lipscomb et al. |
| | Yes | 5,473,692; Davis |
| | Yes | 5,479,509; Ugon |
| | Yes | 5,485,622; Yamaki |
| | Yes | 5,491,800; Goldsmith et al. |
| | Yes | 5,497,479; Hornbuckle |
| | Yes | 5,497,491; Mitchell et al. |
| | Yes | 5,499,298; Narasimhalu et al. |
| | Yes | 5,504,757; Cook et al. |
| | Yes | 5,504,818; Okano |
| | Yes | 5,504,837; Griffith et al. |
| | Yes | 5,508,913; Yamamoto et al. |
| | Yes | 5,509,070; Schull |
| | Yes | 5,513,261; Maher |
| | Yes | 5,517,518; Rosen |
| | Yes | 5,530,235; Stefik et al. |
| | Yes | 5,530,752; Rubin |
| | Yes | 5,533,123; Force et al. |
| | Yes | 5,534,855; Shockley et al. |
| | Yes | 5,534,975; Stefik et al. |
| | Yes | 5,535,322; Hecht |
| | Yes | 5,537,526; Anderson et al. |
| | Yes | 5,539,735; Moskowitz |
| | Yes | 5,539,828; Davis |
| | Yes | 5,550,971; Brunner et al. |
| | Yes | 5,553,282; Parrish et al. |
| | Yes | 5,557,518; Rosen |
| | Yes | 5,557,798; Skeen et al. |
| | Yes | 5,563,946; Cooper et al. |
| | Yes | 5,568,552; Davis |
| | Yes | 5,572,673; Shurts |
| | Yes | 5,592,549; Naget et al. |

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| Anticipates | Reveals Obvious | Description |
|-------------|-----------------|-----------------------------|
| | Yes | 5,606,609; Houser et al. |
| | Yes | 5,613,004; Cooperman et al. |
| | Yes | 5,621,797; Rosen |
| | Yes | 5,629,770; Brassil et al. |
| | Yes | 5,629,980; Stefik et al. |
| | Yes | 5,633,932; Davis et al. |
| | Yes | 5,634,012; Stefik et al. |
| | Yes | 5,636,292; Rhoads |
| | Yes | 5,638,443; Stefik et al. |
| | Yes | 5,638,504; Scott et al. |
| | Yes | 5,640,546; Gopinath et al. |
| | Yes | 5,655,077; Jones et al. |
| | Yes | 5,678,170; Grube et al. |
| | Yes | 5,687,236; Moskowitz et al. |
| | Yes | 5,689,587; Bender et al. |
| Y | Yes | 5,692,047; McManis |
| | Yes | 5,692,180; Lee |
| | Yes | 5,710,834; Rhoads |
| | Yes | 5,715,403; Stefik |
| | Yes | 5,721,788; Powell et al. |
| | Yes | 5,732,398; Tagawa |
| | Yes | 5,740,549; Reilly et al. |
| | Yes | 5,745,604; Rhoads |
| | Yes | 5,748,763; Rhoads |
| | Yes | 5,748,783; Rhoads |
| | Yes | 5,748,960; Fischer |
| | Yes | 5,754,849; Dyer et al. |
| | Yes | 5,757,914; McManis |
| | Yes | 5,758,152; LeTourneau |
| Y | Yes | 5,765,152; Erickson |
| | Yes | 5,768,426; Rhoads |
| | Yes | 5,774,872; Golden et al. |
| | Yes | 5,819,263; Bromley et al. |
| | Yes | 5,842,173; Strum et al. |
| | Yes | BE 9 004 79 |
| | Yes | DE 3 803 982 |
| | Yes | DE 3 803 982 A1 |
| | Yes | EP 0 084 441 |
| | Yes | EP 0 084 441 A1 |
| | Yes | EP 0 128 672 |
| | Yes | EP 0 128 672 A1 |
| | Yes | EP 0 135 422 |
| | Yes | EP 0 135 422 A1 |
| | Yes | EP 0 180 460 |
| | Yes | EP 0 180 460 A1 |
| | Yes | EP 0 370 146 |
| | Yes | EP 0 370 146 A1 |
| | Yes | EP 0 399 822 A2 |

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| Anticipates | Renders Obvious | Description |
|-------------|-----------------|-----------------|
| | Yes | EP 0 421 409 |
| | Yes | EP 0 421 409 A2 |
| | Yes | EP 0 456 386 |
| | Yes | EP 0 456 386 A2 |
| | Yes | EP 0 469 864 |
| | Yes | EP 0 469 864 A2 |
| | Yes | EP 0 469 864 A3 |
| | Yes | EP 0 565 314 |
| | Yes | EP 0 565 314 A2 |
| | Yes | EP 0 593 305 |
| | Yes | EP 0 593 305 A2 |
| | Yes | EP 0 651 554 |
| | Yes | EP 0 651 554 A1 |
| | Yes | EP 0 668 695 |
| | Yes | EP 0 668 695 A2 |
| | Yes | EP 0 668 695 A3 |
| | Yes | EP 0 695 985 |
| | Yes | EP 0 695 985 A1 |
| | Yes | EP 0 696 798 |
| | Yes | EP 0 696 798 A1 |
| | Yes | EP 0 714 204 |
| | Yes | EP 0 714 204 A2 |
| | Yes | EP 0 715 243 |
| | Yes | EP 0 715 243 A1 |
| | Yes | EP 0 715 244 |
| | Yes | EP 0 715 244 A1 |
| | Yes | EP 0 715 245 |
| | Yes | EP 0 715 245 A1 |
| | Yes | EP 0 715 246 |
| | Yes | EP 0 715 246 A1 |
| | Yes | EP 0 715 247 |
| | Yes | EP 0 715 247 A1 |
| | Yes | EP 0 725 376 |
| | Yes | EP 0 725 376 A2 |
| | Yes | EP 0 749 081 |
| | Yes | EP 0 749 081 A1 |
| | Yes | EP 0 763 936 |
| | Yes | EP 0 763 936 A2 |
| | Yes | EP 0 778 513 |
| | Yes | EP 0 778 513 A2 |
| | Yes | EP 0 795 873 |
| | Yes | EP 0 795 873 A2 |
| | Yes | EP 0 800 312 |
| | Yes | EP 0 800 312 A1 |
| | Yes | GB 2,136,175 |
| | Yes | GB 2,264,796 |
| | Yes | GB 2,294,348 |
| | Yes | GB 2,295,947 |

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| Anticipates | Readers Obvious | Description |
|-------------|-----------------|--------------|
| | Yes | JP 01-068835 |
| | Yes | JP 02-242352 |
| | Yes | JP 02-247763 |
| | Yes | JP 02-294855 |
| | Yes | JP 04-369068 |
| | Yes | JP 05-181734 |
| | Yes | JP 05-257783 |
| | Yes | JP 05-268415 |
| | Yes | JP 06-175794 |
| | Yes | JP 06-215010 |
| | Yes | JP 06-225059 |
| | Yes | JP 07-056794 |
| | Yes | JP 07-084852 |
| | Yes | JP 07-141138 |
| | Yes | JP 07-200317 |
| | Yes | JP 07-200492 |
| | Yes | JP 07-244639 |
| | Yes | JP 08-137795 |
| | Yes | JP 08-152990 |
| | Yes | JP 08-185292 |
| | Yes | JP 08-185298 |
| | Yes | JP 57-726 |
| | Yes | JP 62-241061 |
| | Yes | WO 85/02310 |
| | Yes | WO 85/03584 |
| | Yes | WO 90/02382 |
| | Yes | WO 92/06438 |
| | Yes | WO 92/22870 |
| | Yes | WO 93/01550 |
| | Yes | WO 94/01821 |
| | Yes | WO 94/03859 |
| | Yes | WO 94/06103 |
| | Yes | WO 94/16395 |
| | Yes | WO 94/18620 |
| | Yes | WO 94/22266 |
| | Yes | WO 94/27406 |
| | Yes | WO 95/14289 |
| | Yes | WO 96/00963 |
| | Yes | WO 96/03835 |
| | Yes | WO 96/05698 |
| | Yes | WO 96/06503 |
| | Yes | WO 96/13013 |
| | Yes | WO 96/21192 |
| | Yes | WO 96/24092 |
| | Yes | WO 97/03423 |
| | Yes | WO 97/07656 |
| | Yes | WO 97/25816 |
| | Yes | WO 97/32251 |

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| Anticipates | Relevant Options | Description |
|-------------|---------------------|---|
| | Yes | WO 97/48203 |
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| | Yes | Argent Information Q&A Sheet, http://www.digital-watermark.com/ , Copyright 1995, The DICE Company, 7 pages. |
| | Yes | Automation of Securities Markets and Regulatory Implications, Financial Market Trends, n50, p. 20-33, Oct. 1991. [File 148, Gale Group Trade & Industry DB, Dialog(R) commercial database] |
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APPENDIX OF PRIOR ART*

| Anticipates | Renders Obvious | Description |
|-------------|-----------------|---|
| | Yes | CGI Common Gateway Interface Document from the Internet, <cgi@ncsa.uiuc.edu>, 1996, 1 page. |
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APPENDIX OF PRIOR ART*

| Anticipates | Reveals Obvious | Description |
|-------------|-----------------|--|
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APPENDIX OF PRIOR ART*

| Anticipates | Removes Obvious | Description |
|-------------|-----------------|---|
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APPENDIX OF PRIOR ART*

| Anticipates | Readers Obvious | Description |
|-------------|-----------------|--|
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| Anticipates | Render's Obvious | Description |
|-------------|------------------|--|
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| Anticipates | Renders Obvious | Description |
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* Any possible "Y"s that were missed shall not negate the anticipatory nature of a reference, particularly where there is a chart in Appendix B.

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APPENDIX OF PRIOR ART*

| Anticipates | Pers. Obvious | Description |
|-------------|---------------|--|
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